

AP02-PR04	Document Code	Study Plan	Document Approval Date
	<b>AP</b> 02-PR04		

Department: Information Systems	Program: Computer Information Systems	
		Official Stamp

The study plan was approved by the decision of the Deans' Council no. ..... on .....

## About the Program

The Department of Information Systems (IS) formerly "The Department of Computer Information Systems" was established in the academic year 2002/2003 as part of the Faculty of Information Technology and Computer Sciences. The department offers a bachelor's degree in CIS which provides promising employment opportunities in business, industry and the area of Information Technology. In 2019, the department has reviewed the curriculum for the bachelor's degree and a new comprehensive and emergent curriculum has been approved. IS department offers a mater's program in Computer Information Systems, which provides advanced theoretical and practical skills in this discipline.

	Vision and Mission						
Vision	To achieve a leading and distinctive position among Information Systems (IS) departments of other local and regional universities.						
Mission	Providing local and regional markets with competent and qualified graduates equipped and endorsed with the needed knowledge and necessary technical and soft skills in order to enable them to overcome variety of information systems-related challenges by empowering students with exceptional practical and theoretical courses. The IS department also works on providing positive, informative, and pioneer learning environment which helps to hone the character of our graduates and to contribute in shaping individuals' personalities to build information society. Yarmouk University's IS department envisions an abundance of world-class research that contributes in enhancing information systems research community and provides continuous support in building skillset for academic staff and students.						

	Program Objectives				
1	Obtain a successful professional career in industry, academia, or any related field where they meet or exceed expectations				
2	Utilize and apply the knowledge acquired by the program such as the problem-solving skills, critical thinking skills, communications skills and technical computer skills including but not limited to web domains, cloud computing and data sciences to make informed, responsible, and risk-aware decisions in the workplace.				
3	Employ professional and educational skills taught in the CIS program to make a positive impact on society.				

Page 1 of 9



جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and



**Computer Sciences** 

Document Code	Study Dian	Document Approval Date
<b>AP</b> 02-PR04	Study Plan	

	Program Learning Outcomes PLOs				
PLO1	Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.				
PLO2	Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the Computer Information Systems.				
PLO3	Communicate effectively in a variety of professional contexts.				
PLO4	Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.				
PLO5	Function effectively as a member or leader of a team engaged in activities appropriate to the Computer Information Systems.				
PLO6	Support the delivery, use, and management of information systems within an information systems environment.				
PLO7	Design, implement, and use of data management, analysis and retrieval solutions.				



جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and **Computer Sciences** 



Document Code	Study Dlan	Document Approval Date
<b>AP</b> 02-PR04	Study Plan	

Credit hours to obtain a degree in Information Technology and Computer Sciences in a specialization of Computer Information Systems						
		Credit Hours				
	Compulsory	Elective	Total			
University Requirements	12	15	27			
Faculty Requirements	22	0	22			
Department Requirements 67 18 85						
Total	101	33	134			

First: University Compulsory Courses (12) Credit Hours						
Course Code	Course		Number of Credit Hours			Pre-
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite
AL	101	Arabic Language 1	3	0	3	-
EL	101	English Language Skills	3	0	3	-
PS	102	Civil Education	3	0	3	-
MILT	100	Military Sciences	3	0	3	-
EL	099	English Language Skills- Remedial	Remedial	0	0	-
AL	099	Arabic Language - Remedial	Remedial	0	0	-
СОМР	099	Computer Skills - Remedial	Remedial	0	0	-

Second: University Elective Courses (15) Credit Hours							
Course	Course	Number o	Pre-				
Code No.	Course Name	Theoretical	Practical	Total	requisite		
Hum	101	Basic of Mass Communication	3	0	3	-	
Hum	102	Citizenship and Allegiance	3	0	3	-	
Hum	103	Islamic: Intellect & Civilization	3	0	3	-	

Page **3** of **9** 



جامعة اليرموك Yarmouk University كلية تكنو لوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and



Computer Sciences

Document Code	Study Dlan	Document Approval Date
<b>AP</b> 02-PR04	Study Plan	

Hum	104	Art and Behaviours	3	0	3	-
Hum	105	Jordan Contribution to Human Civilization	3	0	3	-
Hum	106	Introduction to Human Cultures Studies	3	0	3	-
Hum	107	Human Rights	3	0	3	-
Hum	108	Thinking Skills	3	0	3	-
Sci	101	The Environment and Public Health	3	0	3	-
Sci	102	Information Technology and Society	3	0	3	-
Sci	103	Physical Education for ALL	3	0	3	-
Sci	104	Effective Communication Skills	3	0	3	-
Sci	105	Renewable Energy	3	0	3	-
Sci	106	Management and Society Development	3	0	3	-
Sci	107	Scientific Research	3	0	3	-

Third: Facult	Third: Faculty Compulsory Courses (22) Credit Hours									
Course	Course	Course Name	Number o	Number of Credit Hours						
Code	No.	course name	Theoretical	Practical	Total	requisite				
CS	111	Programming in a Selected Language	3	0	3	-				
CS	111L	Programming in a Selected Language Lab	0	3	1	CS 111				
MATH	101	Calculus (1)	3	0	3	-				
CIS	101	Introduction to Information Systems	3	0	3	-				
CIS	260	Database systems	3	0	3	CS 210 and CIS 101				
STAT	111	Introduction to Probability (1)	3	0	3	-				
BIT	106	Communication Skills for Information Technology	3	0	3	-				
BIT	221	Legal Issues in Information Technology	3	0	3	BIT 106 and CIS 101				

Fourth: Department Compulsory Courses (67) Credit Hours

Page 4 of 9



**Document Code** 

**AP**02-PR04

جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات و علوم الحاسوب Faculty of Information Technology and



**Computer Sciences** 

Study Plan

**Document Approval Date** 

	Course		Numbe	er of Credit H	lours	Pre-
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite
CIS	214	Visual Programming	3	0	3	CIS 101 & CS 210
CIS	240	Introduction to Software Engineering	3	0	3	CIS 101 & CS 210
CIS	260L	Database Systems Lab	0	3	1	CIS 260
CIS	265	Database Management System	3	0	3	CIS 260
CIS	340	Object Oriented Analysis and Design	3	0	3	CIS 240
CIS	340L	Object Oriented Analysis and Design Lab	0	3	1	CIS 340
CIS	342	System Analysis and Design	3	0	3	CIS 240 & CIS 260
CIS	360	Developing Database Applications	3	0	3	CIS 260
CIS	367	Data Warehousing	3	0	3	CIS 260
CIS	382	Cloud Computing	3	0	3	CIS 260 & CS 332
CIS	440	Software Testing and Validation	3	0	3	CIS 340L
CIS	464	Information Retrieval Systems	3	0	3	CIS 260
CIS	467A	Data Mining	3	0	3	CIS 260
CIS	467L	Information retrieval and Mining Lab	0	3	1	CIS 467A or together

Page **5** of **9** 



جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and



**Document Approval Date** 

**Computer Sciences** 

Document	t Code	C+	ly Plan		Docum	ent Ap	proval Date
<b>AP</b> 02-P	R04	Stut	iy Platt				
				-			
CIS	468	Big Data Management	3	0		3	CIS 467A & CIS360
CIS	499	Graduation Project	3	0		3	Complete 98 CHs
CS	142	Discrete Structures	3	0		3	MATH 101
CS	210	Object Oriented Programming	3	0		3	CS 111
CS	210L	Object Oriented Programming (Lab)	0	3		1	CS 210 & CIS 111L
CS	250	Data Structures	3	0		3	CS 210
CS	332	Data Communication and Networks	3	0		3	CYS 230
CS	351	Analysis and Design of Algorithms	3	0		3	CS 250 & CS 142
CYS	230	Cyber Security Principles	3	0		3	CS 111
CYS	334	Network security	3	0		3	CS 332
BIT	381	Web Application Development (1)	3	0		3	CIS 260

Fifth: Departmen	t Elective Cou	rses (9) Credit Ho	urs			
Course Code		Course Name	Numbe	er of Credit H	lours	
Course Code	Course No.	Course Name	Theoretical	Practical	Total	Pre-requisite
		Human	3		3	CS 210L
CIS	227	Computer		0		
		Interaction				
CIS	241	Software	3	0	3	CIS 240
	241	Documentation				
CIS	256	File Structures	3	0	3	CS 250

Page 6 of 9



**Document Code** 

جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and



**Document Approval Date** 

**Computer Sciences** 

Documer	it Code	Stur	dy Plan		Document Approval Date		
<b>AP</b> 02-F	PR04	5.00	ay Fiall				
		Intelligent	3	0	3	CS 210 & CS	
CIS	370	Systems and				332	
		Internet of					
		Things		-			
		Information	3	0	3	CS 360	
CIS	380	System					
		Applications					
		Software	3	0	3	CIS 440	
CIS	441	Quality					
		Assurance					
CIS	472	Applied Data	3	0	3	CIS 467A	
CIS	472	Mining					
		Distributed	3	0	3	CS 332 & BIT	
CIS	480	Systems				381	
		Applications					
CIS	492	Special Topics	3	0	3	CIS 360	
		Practical	3		3	Complete 98	
CIS	498	Training		3		CHs	
						successfully	

Sixth: Departme	Sixth: Department Elective Courses (6) Credit Hours– Faculty of IT									
Course Code	Course	Course Name	Numbe	er of Credit H	lours	Pre-				
Course Code	No.	Course Name	Theoretical	Practical	Total	requisite				
CS	281	Multimedia Systems	3	0	3	CIS 101 & CS 210				
CS	376	Artificial Intelligence	3	0	3	CS 351				
BIT	222	Entrepreneurship in IT	3	0	3	CIS 101				
BIT	481	Web Application Development (2)	3	0	3	BIT 381				

Seventh: Departm	nent Elective O	Courses (3) Credit	Hours – Facul	ty of Science	<b>:</b>	
Course Code	Course No.		Numbe	er of Credit H	lours	Dro roquisito
Course Code	Course No.	Course Name	Theoretical	heoretical Practical Total	Pre-requisite	
MATH	241	Linear Algebra (1)	3	0	3	MATH 101



جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and



**Computer Sciences** 

Document AP02-PF		Stuc	dy Plan Document App 0 3 3 3 3	proval Date		
MATH	322	Numerical Analysis (1) (for IT Students)	3	0	3	CS 142
STAT	101	Introduction to Statistics (1)	3	0	3	

Марр	oing Matrix betw	ween depart	ment mandat	tory courses	and Student	outcomes	
	1	2	3	4	5	6	7
CIS 214		*					
CIS 240	*	*	*	*		*	
CIS 260		*			*	*	*
CIS 260L		*					*
CIS 265	*			*		*	*
CIS 340	*	*					
CIS 340L	*	*					
CIS 342	*	*					
CIS 360		*				*	*
CIS 367							*
CIS 411		*	*			*	*
CIS 431	*	*	*			*	
CIS 464						*	*
CIS 467A							*
CIS 467L	*	*					*
CIS 499	*	*	*				
CIS 382	*				*	*	
CIS440	*	*				*	
CIS 468	*		1			*	*

Mapping	Matrix betw	ween depar	tment-elect	ive courses	and learnin	ng outcomes	5
	1	2	3	4	5	6	7

Page **8** of **9** 



جامعة اليرموك Yarmouk University كلية تكنولوجيا المعلومات وعلوم الحاسوب Faculty of Information Technology and



Computer Sciences

Document Code AP02-PR04			Study Plan			Document Approval Dat		
CIS 227		*		*		*		
CIS 241	*	*			*	*		
CIS 256	*	*				*	*	
CIS 370	*	*		*	*	*	*	
CIS 380	*			*		*		
CIS 441	*					*	*	
CIS 472	*						*	
CIS 480	*	*		*	*	*		
CIS 492	*	*	*	*	*	*		
CIS 498	*	*	*	*	*	*		